

IN THE ABSTRACT

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ABSTRACT

Functional assays that use the T1R1 receptor to screen for taste modulatory compounds are provided. These assays include cell-based assays and high throughput compound assays to identify compounds that activate T1R1 or modulate T1R1 receptor activation by another compound. Preferred functional assays detect the effect of a putative taste modulatory compound on cell voltage or intracellular calcium in a cell that expresses a T1R1 polypeptide, preferably in association with a G protein, e.g. G α 15. Compounds identified using these assays have potential application as flavor enhancer and modulators in foods and beverage for human or animal consumption.